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APPLICATION N	O. F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/678,764	10/06/2003		Warren Scott Fentress		1626
21587	7590	12/03/2004		EXAMINER	
	N & MART N ST, STE (	·	SUHOL, DMITRY		
BOSTON, MA 02108			ART UNIT	PAPER NUMBER	
				3714	
				DATE MAIL ED: 12/03/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office And Co	10/678,764	FENTRESS, WARREN SCOTT					
Office Action Summary	Examiner	Art Unit					
	Dmitry Suhol	3712					
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with th	ne correspondence address					
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a  - If NO period for reply is specified above, the maximum statutory per  - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a reply b reply within the statutory minimum of thirty (30) riod will apply and will expire SIX (6) MONTHS from the come ARANGE.	e timely filed  days will be considered timely. rom the mailing date of this communication.					
Status							
1) Responsive to communication(s) filed on 12	2 August 2004.						
2a)⊠ This action is <b>FINAL</b> . 2b)□ This action is non-final.							
3)☐ Since this application is in condition for allow	wance except for formal matters,	prosecution as to the merits is					
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D. 11,	453 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>21-27</u> is/are pending in the applica	tion						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>21-27</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and	d/or election requirement.						
Application Papers							
9)☐ The specification is objected to by the Exami	ner						
10) The drawing(s) filed on is/are: a) □ a		e Fyaminer					
Applicant may not request that any objection to the							
Replacement drawing sheet(s) including the corre							
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached Office	ce Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:	gn priority under 35 U.S.C. § 119(	(a)-(d) or (f).					
1. Certified copies of the priority docume	nts have been received						
2. Certified copies of the priority docume		ation No					
3. Copies of the certified copies of the pri	iority documents have been recei	ved in this National Stage					
application from the International Bure		o de la companya de l					
* See the attached detailed Office action for a list	st of the certified copies not receive	ved.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summar	ry (PTO-413)					
<ol> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date <u>9/10/04</u>.</li> </ol>	Paper No(s)/Mail (	Date Patent Application (PTO-152)					
S. Patent and Trademark Office							

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 21-27 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Regarding claims 21 and 27, the limitation of (with respect to claim 21) "...each of said faces being a first color or a second color, said first color corresponding to said polarity and said second color corresponding to said second polarity" and (with respect to claim 27) "... said first face and said second face being a first color and said third face and said fourth face being a second color, whereby said first color corresponds to said first polarity and said second color corresponds to said second polarity" was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Although applicants teach the use of color with their invention the relationship between polarities and color as stated above is simply not taught in the original disclosure.

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## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 21-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Roane '479 in view of Obikubo '253. Roane discloses a 3-D toy building block containing most of the elements of the claims including a polyhedron with faces (figures 1-5) as required by claim 21, each face having one magnetic region (figure 5, magnets 51-54) with a first or second polarity (col. 8, lines 11-29) as required by claim 21. Each magnetic region being centered in each respective face, as required by claim 22, is described in col. 8, lines 12-14.

Although Roane teaches that the side of the building blocks that face each other (sides with opposite polarity) may be color coded to identify them as being mutually attracted (cols. 12-13, lines 66+ and 1-6, respectively), the reference fails to teach each face being a first or second color where the first color corresponds to the first polarity while the second color corresponds to the second polarity as required by claim 21. However Obikubo discloses a set of 3-D building blocks which teach that it is known to identify magnetic polarities with different colors (col. 3, lines 21-28). Therefore it would have been obvious to one having ordinary skill in the art at the time of the claimed invention to utilize different colors representing the different polarities of the Roane

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blocks for the purpose of providing an educational and attractive game, especially since the use of specific color configuration appears to be a pure design choice in that the applicants disclose no advantage or critical need for any specific type of color coding (page 11, line 9 and page 12, line 1-2) and it would appear that the invention would work equally well with same colors identifying opposite polarity sides or different colors identifying opposite polarity sides as long as they are identifiable in some way.

Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Roane '479 and Obikubo '253, as stated above, and further in view of MacGraw '905. Although Roane, as modified by Obikubo, discloses all of the elements of the claims, as sated above, and further states that the magnet may be mounted in any appropriate manner (col. 8, lines 14-16).

Obikubo discloses a set of toy building blocks which teach that it is known to mount a magnet to a block face by embedding it the associated face (figures 1 and 1a and col. 3, lines 3-7). Therefore it would have been obvious to mount the magnets of Roane with their respective faces by embedding them for the purpose of providing a durable connection between the face and magnet and especially since Roane clearly states that the magnets of her invention may be mounted in any appropriate manner (col. 8, lines 14-16).

Claims 21-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Therrien '236 in view of Obikubo '253. Therrien discloses a 3-D toy building block

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containing most of the elements of the claims including a polyhedron with faces (blocks 20 of figures 8-10) as required by claim 21, each face having one magnetic region (figure 7, magnets 30) with a first or second polarity (abstract and col. 4, lines 1-15, where it is clear that a single magnetic pole is directed from each face of the block) as required by claim 21. Each magnetic region being centered in each respective face, as required by claim 22, is shown in figure 7 and described in col. 3, lines 25-26. Magnets being embedded in each face as required by claim 23 is shown in figure 7 and described in col. 3, lines 49-51. The block being a platonic solid, as required by claim 24, is shown in figure 7 as cube 20.

Although Therrien teaches that the faces of his building blocks may have a color associated with each respective face (colored decal 70 described in col. 5, lines 45-47), the reference fails to teach each face being a first or second color where the first color corresponds to the first polarity while the second color corresponds to the second polarity as required by claim 21. However Obikubo discloses a set of 3-D building blocks which teach that it is known to identify magnetic polarities with different colors (col. 3, lines 21-28). Therefore it would have been obvious to one having ordinary skill in the art at the time of the claimed invention to utilize different colors representing the different polarities of the Therrien blocks for the purpose of providing an educational and attractive game, especially since the use of specific color configuration appears to be a pure design choice in that the applicants disclose no advantage or critical need for any specific type of color coding (page 11, line 9 and page 12, line 1-2).

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Claim 25 is rejected under 35 U.S.C. 103(a) as being unpatentable over Therrien '236 and Obikubo '253, as stated above, and further in view of Zeischegg '360.

Although Therrien, as modified by Obikubo, discloses all of the elements of the claims as stated above, and further including that the blocks of his invention can take on a variety of forms including virtually any geometrically regular shape (col. 2, lines 62-64), the reference fails to explicitly teach a block being a regular tetrahedron as required by claim 25. However, Zeischegg discloses a set of magnetic building blocks (figure 1 and col. 1, lines 59-61) which teach that it is known to manufacture such blocks in the shape of a regular tetrahedron (col. 3, lines 35-36). Therefore it would have been obvious to utilize a regular tetrahedron shape with the blocks of Therrien since Therrien clearly discloses that his blocks may take on virtually any regular geometric shape.

Claima 26 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Therrien '236, Obikubo '253 and Zeischegg '360, as stated above, and further in view of MacGraw '905. Although Therrien, as modified by Obikubo and Zeischegg, discloses all of the elements of the claims as stated above, the reference fails to teach that a first and second faces having a first polarity and a third and fourth faces having a second polarity as required by claim 27. However, MacGraw discloses a set of magnetic building blocks in the shape of tetrahedrons which teach that it is known to manufacture such blocks a plurality of faces having alternating polarity (figure 2 and col. 3, lines 30-42). Therefore it would have been obvious to manufacture the blocks of Therrien with a first and second faces having a first polarity and a third and fourth faces having a

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second polarity for the purpose of being able to assemble any two building blocks together in a desired fashion.

#### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dmitry Suhol whose telephone number is 571-273-4430. The examiner can normally be reached on Mon - Friday 9am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Derris Banks can be reached on 703-308-1745. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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